5/25

DART AEROSPACE LTD		Work Order:	22765
Description: Crosstube Extrusion		Part Number:	D6006-129
Dwg: D6006 Rev. A		Qty:	18
	.,		Page 1 of 1

Step	Location	Procedure	Ву	Date	Qty
1	DC	Issue Traveler	1 * / /	05.03.18	18
2	PG	Issue P/O: 100 THOL a) Order as per Dwg D6006 b) Material: 3.250 x 0.515 wall 7075-T6/T6511 (WW-T-700/7 or QQ-A-225/9 or QQ-A-200/11) seamless aluminum tube c) Minimum ultimate tensile strength = 77 ksi d) Minimum tensile yield strength = 66 ksi e) Tolerance are per ASTM B210 (see details on Dwg D6006) f) Material certification required	Ü	DS+C3-{8	(8
3	RG	Receive and Inspect for transit damage Ensure Material certification is attached	CS	5/57/08	18
4	QC6	Inspect Level 6 Ensure Material certification comply to Dwg D6006	m	odiolia	18
5	FP	Chemical Conversion Coat as per QSI 005 4.1	N	A mutil 0	14
6	QC3	Inspect Chemical Conversion Coat	11/	A	
7	ST	Identify and Stock	CL.	D5/10/12	18
8	AC	Cost / part: <u>598.86</u> Close W/O 5 98.86		02-10-56	18
9	DC	Close W/O \leq ? $%$. $%$ 6 Inspect Level 21	1	05/10/06	18

Rev	Date	Change	Revised By	Approved
	00.11.21	New Issue	EC	
- ^-		Added: Issue P/O	EC	
<u>D</u>			KJ/JLM	11.11
<u> </u>	04.06.15	Added tolerance to Step 2	1 1070	11/1/11/

RELEASED

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES											
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector						
					<u> </u>								
					<u> </u>	<u> </u>	l <u></u>						

	WORK ORDER NON-CONFORMANCE (NCR)										
	Description of NC	T	Corrective Action Section B		Verification	A	A				
STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Section C	Design Mgr	Approval QC Inspector				
			·								
				:							
				}							
							× .				
	STEP	STED Description of NC	STEP Description of NC Section A Initial	STEP Description of NC Corrective Action Section B Section A Initial Action Description	STEP Description of NC Corrective Action Section B Initial Action Description Sign &	STEP Description of NC Section A Initial Action Description Sign & Section C	STEP Description of NC Corrective Action Section B Verification Approval Section A Section C Design Mgr				

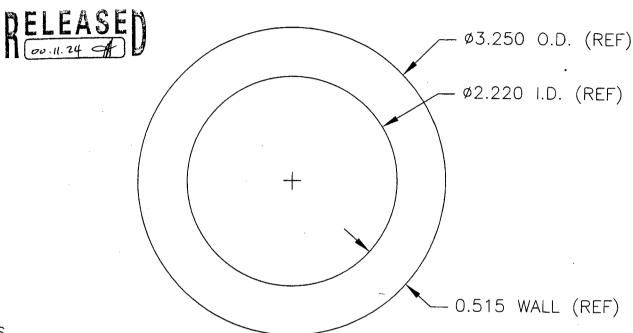
Part No:	PAR #:	Fault Category: NCR:	Yes No DQA:	Date: <u>05//0/26</u>
NOTE: Date & initial all entries	·		QA: N/C Closed:	Date:





DESIG	P	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHEC	KED	APPROVED	DRAWING NO. SHEET	REV. A
DATE			TITLE	SCALE
00.1	11.17		CROSSTUBE MATERIAL	1:1
Α		00.11.17	NEW ISSUE	

SPECIFICATION CONTROL DRAWING



NOTES

1) D6006-XXX CROSSTUBE LENGTH

WHERE XXX IS LENGTH IN INCHES EG. 129" LONG TUBE: D6006-129

SHOP COPY

RETURN TO

- 2) MATERIAL: 3.250 OD x 0.515 WALL 7075-T6/T6511 (WW-T-700/7 OR QQ-A-225/9 OF QQ-A-200/11) SEAMLESS ALUMINUM TUBE.

 MINIMUM ULTIMATE TENSILE STRENGTH = 77 ksi

 MINIMUM YIELD TENSILE STRENGTH = 66 ksi

 TRULED COPY
- 3) TOLERANCES ARE PER ASTM B210 AS FOLLOWS:

O.D.: \pm 0.008 MEAN (\pm 0.016 INCLUDING OVALITY) WALL: \pm 0.020 MEAN (\pm 0.052 INCLUDING ECCENTRICITY) LENGTH: XXX +0.188/-0.000 STRAIGHTNESS: 0.010" DEVIATION / 12" LENGTH

CARK CADER

NO. 22765

- 4) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. TH OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 5) CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

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Job Costing Report

Dart Aerospace Ltd. Hawkesbury

Mar 17, 2005 04:26 pm

Work Order No : 0022765 : D6006-129 Department Code:

Project Name : D6006-1 Project For : WK525 Burden Flags : NNNNNNN WO Status : Open Work Order Type : Main

Invoice State : Not Invoiced Main WO Number

House Part Number : D6006-129 Invoice Date : Invoice Number :

Description : Crosstube material Invoice Amount : 0.00 Manufactured : Yes

Amount Req'd: 18 Amount Req : 0
Amount Done : 0
: 03-17-05 Order Entry No :

Start Date OE Value :

Est Finish Date : 06-10-05

Est Mark Up : 0.000% Actual Mark Up : 0.000% Act Finish Date : Drawings Reqd : No

Ok for Approval :

3.7

\$0 Posted to Finished Goods Approval Reced ::

	•			· · }-	/1' L
•	Estimated	Actual	Var. %	Posted	To Post
=======================================	=========	=========	=========	==========	=========
Material Cost :	0.00	0.00	0.00	0.00	
Engineering Hours :	0.00	0.00	0.00	· PANNER	
Engineering @@st :	0.00	0.00	0.00	0.00 44	
Production Hours :	0.00	0.00	0.00	e de In	rvo crid
Production Cost ::	0.00	0.00	0.00	0.00	0.00
Packaging Hours ::	0.00	0.00	0.00	•	
Packaging Cost :	0.00	0.00	0.00	0.00	₹ ²⁰ 0.00
OverHead Hours :	0.00	0.00	0.00	•	
OverHead Cost :	0.00	0.00	0.00	0.00	0.00
CNC Hours :	0.00	0.00	0.00		:
CNC :	0.00	0.00	01.00	0.00	0.00
Misc. Hours ::	0.00	0.00	0.00	1 6.0	
Misc. :	0.00	0.00	0.00	0.00	0.00
\sim . The second of the secon	=======	========	======		
Burden ::	0.00	0.00	0.00		
Total Cost	0.00	0.00	0.00		iost
Total Cost : Mark up ::	0.000	0.000	0.00	et i e e e e e e e e e e e e e e e e e e	
	0.00	0.00			(\tilde{c}_{i})
Selling Cost : :	0.00	0.00		2007	
1. 183	Es	stimated	Acti	ıal	
Labour Hrs/Amount	Done :	0.00	0.0	00	March 18
Profits/(Loss)	:	0.00	0.0	0	0.0

C. CO

0.00

Page 1



363/05

2007762

13568/2

Abnahmeprüfzeugnis 3.1 - EN 10204:2004

Inspection Certificate 3.1 - EN 10204:2004 | Certificat de Reception 3.1 - EN 10204:2004

Canada

Kunde: Client:

Dart Aerospace Ltd.

1270 Abordeen Street

Hawkesbury, ON K6A1K7

Tubes seamless extruded

AMS QQ-A-200/11E & ASTM B 210

Spezifikation: Specification:

Abmessung Size / Dimension

Product / Produit:

Produkt:

Werkstoff: 7075

Alloy/Alliage:

3,250"

x 2,220"

x 0,515"

Zustand: Temper/État

Auftrag:

Zeugnisnummer:

Bestellnummer:

Cert No.: / No. du certificat:

Order No. / No. de commande

Our Reference/Notre Reference:

T 6511

x 129,00"

Kennzeichnung Marking/Marquage:

ALUnna - Cert No. 363/05 - 7075 - T 6511 - Cast No. 04A310-04 - QQA 200/11E - 3.250" OD X 0.515" Wall - Heat

No. 66/04 - Lot 13568/2-1 PO. 2007762

Lieferung

18

lb5 1034

Delivered Material / Matérial délivre: 1 Chemische Analyse

Chemical Analysis / analyse chimique

1. CHEIIIS	ソレノノロンフィ	ııcıryəc	•	Q 11 1 Q 11 1						. (1 _	1 '	1
	Si	Fe	Cu	, M n	Mg	Cr	Zn	Ϋ́i	Pb	Zr	₿ŧ	Sn	Ni	
Charge/ min.			1,2		2,1	0,18	5,1						i	
Cast No. max.	0,40	0,50	2,0	0,30	2,9	0,28	6,1	0,20						ĺ
04A310-04	0,1061	0,1950	1,4514	0,0408	2,5600	0,2037	5,8720	0,0329	0,0050	0,0095				İ

Elements without indication < 0,01 %

2 Mechanische Figenschaften

Mechanical Properties / Valeurs Mécaniques

4	e. Procestoria	sone Ligen.	, , , , , , , , , , , , , , , , , , , ,	1	1	1	1	-1
	Anforderungen Requirements	tensile (Rm) ksi	yield (Rp0,2) ksi	elongation 2" %	elongation A %	Hardness HB	Heat No.	
	min. max.	77,0	66,0					
	1 2	85,695 85,695	79,750 79,895	12,0 12,0		161 163	66/04 66/04	
							:	

Ergebnis der Prüfungen:

Es wird bestätigt, daß die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellannahme entspricht

Test results:

We confirm that the delivery has been tested and applies to the agreements made on receipt of the order

Resultats:

Nous confirmons que la livraison a été controlée et correspond avec les conventions faites à la réception de la commande

gschwindU

Certified acc. to DIN EN ISO 9001:2000, valid until 2006-03-09

Certificate No.: 001959 QM

Abnahmebeauftragter

25.05.2005